

# *Project Baseline Summary Report*

Data Source: **EM CDB**  
Operations/Field Office: **Oak Ridge**  
Site Summary Level: **Portsmouth Gaseous Diffusion Plant**  
Project **OR-653 / Portsmouth Waste Management**

Report Number: **GEN-01b**  
Print Date: **3/9/2000**  
HQ ID: **0152**

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## **General Project Information**

### **Project Description Narratives**

#### **Purpose, Scope, and Technical Approach:**

##### **PURPOSE:**

This project will manage, and treat/dispose of legacy waste in compliance with RCRA, TSCA, and DOE Orders.

##### **SCOPE:**

The Waste Management project has the following objectives for the site:

Perform treatment, maintain waste storage and expedite all waste streams to final disposition in full compliance with all DOE Orders, contractor policies and procedures and, federal and state regulations and permits.

Reduce the Waste Management overhead burden in direct proportion to the waste streams shipped offsite for disposition.

Document all past, present and future waste streams generated by DOE-directed activities that have been stored or are being stored for disposition in the RCRA permitted storage areas.

##### **TECHNICAL APPROACH:**

1) Waste Storage: Waste storage will be in compliance with applicable state and federal rules and regulations for regulated waste. LLW will be stored in accordance with DOE Orders and best management practices established at the site.

2) Treatment: Waste will be treated in accordance with applicable state and federal rules and regulations. Specifically, mixed waste will be treated to the appropriate LDR level as prescribed in the Ohio EPA Site Treatment Plan. Mixed waste treatment technologies currently identified in the Baseline include, but are not limited to incineration, stabilization, chemical/physical treatment, and metal recovery. A portion of the PORTS LLW requires treatment to immobilize radiological constituents prior to disposal. Treatment technologies for this LLW will be identified through successful treatability studies. In all cases, treatment will be achieved through the most economically feasible technology available at the time of treatment. It is assumed that technologies currently exist for the PORTS waste inventory, but will require some modification prior to implementation.

3) Disposal: Disposal of waste will be in accordance with applicable local, state and federal rules and regulations. Disposal options are driven by waste type and include disposal at various commercial and DOE low level and mixed waste disposal facilities.

##### **ASSUMPTIONS:**

Work will be defined in fixed price subcontracts. Guidance and oversight will be provided to the subcontractors to ensure DOE program goals and regulatory commitments are met within established scope, schedule, and budget.

The cost of characterization and waste disposition of D&D waste is not estimated and cannot be estimated until the D&D method is determined and is not included in this PBS.

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## **Project Description Narratives**

The RCRA Storage unit will remain available through the D&D of the Gaseous Diffusion Plant (GDP) and resultant waste disposition is accomplished.

Treatable wastes, excluding on-site waste water treatment, will be shipped to appropriate off-site treatment facilities and the residuals either disposed or returned to PORTS for final disposition.

Legacy wastewater is analyzed on site and is treated at various on-site water treatment facilities.

All mixed waste detailed within the Site Treatment Plan will be treated under the RCRA treatment category.

Characterization corresponds to the characterization for treatment and/or disposal of all currently uncharacterized legacy waste streams residing within on-site storage areas. (The term "uncharacterized waste" refers to wastes that are not sufficiently characterized to support a treatment or disposal option.)

The Oak Ridge TSCA Incinerator will accept PORTS soft solids beginning with FY 1999.

The Oak Ridge TSCA Incinerator will be available for the Life Cycle Baseline (LCB) period.

The DOE Broad Spectrum contract will be available for the LCB period.

The DOE Broad Spectrum contract will not include disposal in the scope.

Storage activities will continue to maintain compliant operations within Conduct of Operations, SAR, RCRA, and DOE Orders.

LCB are based on current operating and waste tracking systems, including upgrades and improvements, but does not include the installation of new operating and/or waste tracking systems.

Trained and qualified labor resources will be available during the LCB period.

Complex-wide Mixed Waste disposal contract will be available and cost is assumed to be the top tier cost of the old contract for the LCB period.

DOE Order 435.1 requirements are not estimated in the Life Cycle Baseline.

DOE will accept and approve BCPs and FIN Plan changes required supporting changes in regulatory drivers.

The Waste Management Program projects are sequenced to assure compliance with current applicable federal, state, and local environmental, safety, and health regulations, and DOE Orders in a manner that protect the health and safety of the public, the workforce, and the environment.

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## **Project Description Narratives**

### **Project Status in FY 2006:**

The majority of legacy waste will still be in approved storage awaiting treatment/disposal. Waste management activities will be limited to the storage of all waste in compliance orders and regulations, and the treatment/disposal of PCB solids (absorbents and equipment) that will be generated as long as the D&D of the enrichment facilities has not been completed.

### **Post-2006 Project Scope:**

The majority of legacy waste will undergo treatment/disposal at approved offsite destinations. Waste storage operations will be ongoing.

### **Project End State**

All stored waste streams will have been treated and/or transported to their final location of disposition, except for PCB wastes generated in the process buildings that will continue to be generated until D&D of the gaseous diffusion plant has been completed. Treatment and disposal information for each waste stream will be recorded on certified documentation.

### **Cost Baseline Comments:**

The estimate is based on bills of material (BMs) prepared by each participating functional organization. The craft or crafts that will perform the tasks are identified and the appropriate wage rates are applied. Material and labor pricing is based on current vendor quotes, recent similar job history, the U.S. Army Corp of Engineer's Computer Aided Cost Estimating Systems pricing data base, and nationally recognized databases such as R. S. Means Construction Cost Data, R. S. Means Environmental Cost Handling Options and Solutions, and Richardson's Construction Estimating Standards. Special equipment costs were obtained either by vendor contact or data from similar projects. Cost estimate rates are based on PORTS AES Standard Value File SBL2268.VAL dated August 17, 1998.

### **Safety & Health Hazards:**

DOE is committed to achieving compliance with laws, regulations, and agreements that protect human health and the environment and is focusing its resources to assess and cleanup inactive waste sites and facilities, to enhance safe and effective waste management operations, to emphasize waste minimization, and to coordinate applied waste research and development (R&D) programs. Safety first is the M&I Contractor core value and is fundamental to every work activity. All accidents are preventable and the contractor strives to achieve "Zero Accident" performance on all jobs. Safety is everyone's responsibility this includes worksite safety, safety of fellow workers, personal safety, public safety, and protection of the environment.

Safety and health-related hazards associated with Environmental Management activities at PORTS are those related to radiological contamination, hazardous chemicals, and physical trauma. Without proper controls, workers, the public, and the environment may be exposed to these categories of hazards during the completion of remediation, construction, maintenance, or operational responsibilities.

### **Safety & Health Work Performance:**

Wide ranges of formal and informal processes are in place for identification and analysis of the hazards associated with performing work at PORTS. These processes range from formal, detailed analytical hazard analysis, to informal pre-job assessments by the individuals actually performing the work. Programs exist which require specific hazard identification and analysis for each facility at PORTS.

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## **Project Description Narratives**

The Integrated Safety Management Process describes the process for implementing Safety and Health (S&H) for Environmental Management (EM) activities at PORTS.

A set of Work Smart Standards has been established and is contractually binding for all Environmental Management activities performed at PORTS. A multi-discipline team of managers, hourly workers, and S&H professionals determined applicable standards. All known existing hazards were considered and applicable standards were selected from federal, state, DOE, and national consensus standards and requirements.

Specific S&H disciplines (e.g., Facility Safety, Fire Protection, and Industrial Hygiene) maintain established, individual programs for addressing hazards within their particular areas of expertise.

Various processes exist at all levels for ensuring that work has been properly planned and authorized before it is begun. Complex, large-scale activities may be subjected to formal Operational Readiness Reviews, while routine, low-hazard tasks receive less formal analysis. Different S&H discipline programs to ensure operational readiness (e.g., Facility Safety - Unresolved Safety Question Determination). Computerized work planning processes assist planners in considering/addressing the entire range of safety and health hazards associated with work at PORTS. The workers perform the final readiness check as they examine the equipment, permits, and conditions of the worksite immediately prior to beginning work.

Workers also continually remain alert to changing conditions and unidentified hazards as the job progress. They are expected to bring issues to the attention of their supervisor. Trained S&H professionals provide field oversight of EM program activities and are alert for unforeseen hazards as well.

The processes for addressing feedback and for continually improving S&H programs and activities are integral parts of the Integrated Safety Management System Process and are integral parts of the Project Delivery Process, which governs all EM activities at PORTS. Feedback received from external assessments, self-assessments, the lessons learned program, incident investigations, and formally submitted employee concerns, and from day-to-day interaction with employees is given appropriate consideration. Based on information (feedback) from those sources, corrective actions are initiated with the goal of continually improving the safety and health of the public and employees.

### **PBS Comments:**

### **Baseline Validation Narrative:**

The Oak Ridge Operations Office Environmental Management Life Cycle Baseline (LCB) was submitted by the Managing and Integrating Contractor, Bechtel Jacobs Company LLC, to DOE-ORO on April 1, 1999. The final draft LCB will be submitted to DOE-ORO on June 1, 1999 after formal receipt and incorporation of comments. A validation of the baseline is in process using an independent contractor to DOE-ORO. The validation will be ongoing until complete and the final validation report is scheduled to be issued on June 25, 1999.

## **General PBS Information**

**Project Validated?**

**Date Validated:**

**Has Headquarters reviewed and approved project?**

No

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## General PBS Information

Date Project was Added: 3/10/1999

Baseline Submission Date: 7/1/1999

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	Y	N	N	N	Y	Y	Y

## Project Identification Information

DOE Project Manager: Melda Rafferty

DOE Project Manager Phone Number: 740-897-5521

DOE Project Manager Fax Number: 740-897-3572

DOE Project Manager e-mail address: qp4@cosmail4.ctd.ornl.gov

Is this a High Visibility Project (Y/N):

## Planning Section

### Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	195,360	167,695	363,055	29,776	23,974	29,894	26,453	21,751	13,019	13,014	16,706	16,215	14,520	13,573	26,892
PBS Baseline (constant 1999 dollars)	185,594	132,630	318,224	29,776	23,974	29,894	26,453	21,751	12,751	12,484	15,696	14,922	13,087	11,982	23,251
PBS EM Baseline (current year dollars)	195,360	167,695	363,055	29,776	23,974	29,894	26,453	21,751	13,019	13,014	16,706	16,215	14,520	13,573	26,892
PBS EM Baseline (constant 1999 dollars)	185,594	132,630	318,224	29,776	23,974	29,894	26,453	21,751	12,751	12,484	15,696	14,922	13,087	11,982	23,251

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	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	19,298	23,423	26,913	34,762	63,299	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	16,342	19,427	21,863	27,658	47,340	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	19,298	23,423	26,913	34,762	63,299	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	16,342	19,427	21,863	27,658	47,340	0	0	0	0	0	0	0	0	0	0	0

## Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

## Project Reconciliation

### Project Completion Date Changes:

Previously Projected End Date of Project:

Current Projected End Date of Project: 9/30/2013

Explanation of Project Completion Date Difference (if applicable):

### Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	Actual 1997 Cost:	23,974	Actual 1998 Cost:	26,453
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## Project Reconciliation

Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	-50,427	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):	-1,362
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	-51,789		

## Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	-51,789	
Additional Amount to Reconcile (+):	310,343	

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	258,554
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## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
RCRA - LLW WASTE :: STPI/LAB PACK RECEIVE SITE AGREEMENT	OR653-001		3/31/2000	3/31/2000			Y				
RCRA - LLW WASTE :: STPI/CARBON PROCURE CONTRACT WITH VENDOR	OR653-002		3/31/2000	3/31/2000			Y				
RCRA - LLW WASTE :: STPI/LABPACK INITIATE SHIPMENTS FOR TREATMENT	OR653-003		6/30/2000	6/30/2000			Y				
RCRA - LLW WASTE :: STPI/LABPACK COMPLETE SHIPMENTS FOR TREATMENT	OR653-004		2/1/2006	6/30/2000			Y				
RCRA - LLW WASTE :: STPI/FUTURE INCINERATION SUBMIT PLAN FOR TRTMNT	OR653-005		9/29/2000	9/29/2000			Y				

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
RCRA - LLW WASTE :: STPI/CARBON INITIATE SHIPMENTS FOR TREATMENT	OR653-006		9/30/2000	9/30/2000			Y				
RCRA - LLW WASTE :: STPI/METAL RCVRY DETERMINE ADAPTATION NEEDED	OR653-007		12/31/2000	12/31/2000			Y				
RCRA - LLW WASTE :: STPI/PHYS CHEM TREAT DETERMINE ADAPTATION NEEDED	OR653-008		12/31/2000	12/31/2000			Y				
RCRA - LLW WASTE :: STPI/CYANIDE COMPLETE SHIPMENT OF MIXED WASTES	OR653-009		12/31/2000	12/31/2000			Y				
RCRA - LLW WASTE :: STPI/COMML STABIL PROCURE CONTRACT WITH VENDOR	OR653-010		12/31/2000	12/31/2000			Y				
RCRA - LLW WASTE :: STPI/STABILIZATION INITIATE SHIPMENT OF WASTES	OR653-011		3/30/2001	3/30/2001			Y				
RCRA - LLW WASTE :: STPI/CHEMTRT SUBMIT PLAN FOR PHYS CHEM TRTMNT	OR653-012		9/28/2001	9/28/2001			Y				
RCRA - LLW WASTE :: STPI/CARBON COMPLETE SHIPMENTS FOR TREATMENT	OR653-013		6/27/2007	9/30/2001			Y				
RCRA - LLW WASTE :: STPI/METAL RCVRY SUBMIT PLAN FOR TREATMENT	OR653-014		12/31/2004	9/30/2002			Y				
RCRA - LLW WASTE :: STPI/HEU COMPLETE SHIPMENTS FOR TREATMENT	OR653-015		12/28/2009	9/30/2002			Y				
RCRA - LLW WASTE :: STPI/MERCURY RECEIVE SITE AGREEMENT (INEL)	OR653-016		2/28/2004	12/31/2002			Y				
RCRA - LLW WASTE :: STPI/HEU SEPARATION COMPLETE TREATABILITY STUDY	OR653-017		12/28/2010	9/30/2003			Y				
RCRA - LLW WASTE :: STPI/MERCURY INITIATE SHIPMENTS FOR PROCESSING	OR653-018		10/14/2005	12/31/2003			Y				
RCRA - LLW WASTE :: STPI/AEROSOL COMPL SHIP OF CANS FOR TREATMENT	OR653-019		10/27/1999	9/30/2004							

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
RCRA - LLW WASTE :: STPI/MERCURY COMPLETE SHIPMENTS FOR PROCESSING	OR653-020		4/12/2006	12/31/2004			Y				
RCRA - LLW WASTE :: STPI/LEAD RECYCLE COMPL SHPMNTS FOR RECYCLE	OR653-021		3/31/2005	3/31/2005			Y				
RCRA - LLW WASTE :: STPI/COMML STABIL COMPLETE SHIP OF MIXED WASTE	OR653-022		3/31/2011	3/31/2011			Y				
Portsmouth Waste Management Project Start	OR653-023		10/1/1996								
Portsmouth Waste Management Project Completion	OR653-024		9/30/2013								
STPI/Future Incineration Determin Adaptation Need	OR653-025		12/30/1999	12/30/1999			Y				
STPI/GW Treat Complete Processing Mixed Waste	OR653-026		12/31/1999	12/31/1999			Y				
Portsmouth Waste Management Mission Completion	OR653-027		9/30/2013								

## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
RCRA - LLW WASTE :: STPI/LAB PACK RECEIVE SITE AGREEMENT	OR653-001										STPI/LAB PACK RECEIVE SITE AGREEMENT
RCRA - LLW WASTE :: STPI/CARBON PROCURE CONTRACT WITH VENDOR	OR653-002										STPI/CARBON PROCURE CONTRACT WITH VENDOR
RCRA - LLW WASTE :: STPI/LABPACK INITIATE SHIPMENTS FOR TREATMENT	OR653-003										STPI/LABPACK INITIATE SHIPMENTS FOR TREATMENT
RCRA - LLW WASTE :: STPI/LABPACK COMPLETE SHIPMENTS FOR TREATMENT	OR653-004										STPI/LABPACK COMPLETE SHIPMENTS FOR TREATMENT
RCRA - LLW WASTE ::	OR653-005										STPI/FUTURE INCINERATION

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## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
STPI/FUTURE INCINERATION SUBMIT PLAN FOR TRTMNT											SUBMIT PLAN FOR TRTMNT
RCRA - LLW WASTE :: STPI/CARBON INITIATE SHIPMENTS FOR TREATMENT	OR653-006										STPI/CARBON INITIATE SHIPMENTS FOR TREATMENT
RCRA - LLW WASTE :: STPI/METAL RCVRY DETERMINE ADAPTATION NEEDED	OR653-007										STPI/METAL RCVRY DETERMINE ADAPTATION NEEDED
RCRA - LLW WASTE :: STPI/PHYS CHEM TREAT DETERMINE ADAPTATION NEEDED	OR653-008										STPI/PHYS CHEM TREAT DETERMINE ADAPTATION NEEDED
RCRA - LLW WASTE :: STPI/CYANIDE COMPLETE SHIPMENT OF MIXED WASTES	OR653-009										STPI/CYANIDE COMPLETE SHIPMENT OF MIXED WASTES
RCRA - LLW WASTE :: STPI/COMML STABIL PROCURE CONTRACT WITH VENDOR	OR653-010										STPI/COMML STABIL PROCURE CONTRACT WITH VENDOR
RCRA - LLW WASTE :: STPI/STABILIZATION INITIATE SHIPMENT OF WASTES	OR653-011										STPI/STABILIZATION INITIATE SHIPMENT OF WASTES
RCRA - LLW WASTE :: STPI/CHEMTRT SUBMIT PLAN FOR PHYS CHEM TRTMNT	OR653-012										STPI/CHEMTRT SUBMIT PLAN FOR PHYS CHEM TRTMNT
RCRA - LLW WASTE :: STPI/CARBON COMPLETE SHIPMENTS FOR TREATMENT	OR653-013										STPI/CARBON COMPLETE SHIPMENTS FOR TREATMENT
RCRA - LLW WASTE :: STPI/METAL RCVRY SUBMIT PLAN FOR TREATMENT	OR653-014										STPI/METAL RCVRY SUBMIT PLAN FOR TREATMENT

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## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
PLAN FOR TREATMENT											
RCRA - LLW WASTE :: STPI/HEU COMPLETE SHIPMENTS FOR TREATMENT	OR653-015										STPI/HEU COMPLETE SHIPMENTS FOR TREATMENT
RCRA - LLW WASTE :: STPI/MERCURY RECEIVE SITE AGREEMENT (INEL)	OR653-016										STPI/MERCURY RECEIVE SITE AGREEMENT (INEL)
RCRA - LLW WASTE :: STPI/HEU SEPARATION COMPLETE TREATABILITY STUDY	OR653-017										STPI/HEU SEPARATION COMPLETE TREATABILITY STUDY
RCRA - LLW WASTE :: STPI/MERCURY INITIATE SHIPMENTS FOR PROCESSING	OR653-018										STPI/MERCURY INITIATE SHIPMENTS FOR PROCESSING
RCRA - LLW WASTE :: STPI/AEROSOL COMPL SHIP OF CANS FOR TREATMENT	OR653-019										STPI/AEROSOL COMPL SHIP OF CANS FOR TREATMENT
RCRA - LLW WASTE :: STPI/MERCURY COMPLETE SHIPMENTS FOR PROCESSING	OR653-020										STPI/MERCURY COMPLETE SHIPMENTS FOR PROCESSING
RCRA - LLW WASTE :: STPI/LEAD RECYCLE COMPL SHPMNTS FOR RECYCLE	OR653-021										STPI/LEAD RECYCLE COMPL SHPMNTS FOR RECYCLE
RCRA - LLW WASTE :: STPI/COMML STABIL COMPLETE SHIP OF MIXED WASTE	OR653-022										STPI/COMML STABIL COMPLETE SHIP OF MIXED WASTE
Portsmouth Waste Management Project Start	OR653-023			Y							
Portsmouth Waste Management	OR653-024				Y						Project Completion

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description			
Project Completion														
STPI/Future Incineration Determination/Adaptation Need	OR653-025													
STPI/GW Treat Complete/Processing Mixed Waste	OR653-026													
Portsmouth Waste Management Mission Completion	OR653-027					Y								

## Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
MLLW														
Treatment	M3	0.00	0.00	0.00	0.00		0.00							
MLLW														
Storage	M3							9,059.40	8,678.30	8,591.50	8,556.70	8,674.90	8,782.10	8,900.50
MLLW														
On-Site Disp.	M3	154.00	0.00	154.00				1.00	0.00	0.00	153.00	0.00	0.00	0.00
MLLW														
Comm. Disp.	M3	1,417.90	12,515.00	13,932.90	0.00		0.00	254.10	452.30	158.00	0.00	0.00	0.00	0.00
MLLW														
Ship to DOE Disp.	M3	0.00	0.00	0.00	0.00		0.00							
MLLW														
TBD Disp.	M3	101.00	2,672.00	2,773.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00

Dataset Name: FY 1999 Planning Data

Date of Dataset: 9/20/1999

# Project Baseline Summary Report

Data Source: EM CDB

Report Number: GEN-01b

Operations/Field Office: Oak Ridge

Print Date: 3/9/2000

Site Summary Level: Portsmouth Gaseous Diffusion Plant

HQ ID: 0152

Project OR-653 / Portsmouth Waste Management

## Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
LLW														
Storage	M3							16,460.00	16,472.50	16,472.50	16,472.50	16,472.50	16,472.50	16,472.50
LLW														
On-Site Disp.	M3	0.00	0.00	0.00	0.00		0.00							
LLW														
Comm. Disp.	M3	993.50	9,053.50	10,047.00	0.00		0.00	294.00	149.50	0.00	0.00	0.00	0.00	0.00
LLW														
TBD Disp.	M3	0.00	6,869.00	6,869.00										
Rem. Waste														
Disposed	M3	0.00	0.00	0.00										
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
MLLW														
Treatment	M3													
MLLW														
Storage	M3	8,900.30	9,018.50	8,183.20	4,255.40	1,966.60	293.00	18.40	8.40	0.00	11.00	0.00	11.00	
MLLW														
On-Site Disp.	M3	0.00	0.00	0.00	0.00	0.00								
MLLW														
Comm. Disp.	M3	0.00	0.00	553.50	3,734.00	2,356.00	1,884.80	529.80	668.00	313.40	294.00	316.00	294.00	
MLLW														
Ship to DOE Disp.	M3													

Dataset Name: FY 1999 Planning Data

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Date of Dataset: 9/20/1999

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Portsmouth Gaseous Diffusion Plant**

Project **OR-653 / Portsmouth Waste Management**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0152**

Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
MLLW													
TBD Disp.	M3	0.00	0.00	101.00	982.00	277.00	49.00	44.00	110.00	110.00	110.00	110.00	110.00
LLW													
Storage	M3	16,472.50	16,472.50	15,922.50	14,268.50	12,043.50	9,910.50	7,779.50	0.00	0.00	0.00	0.00	0.00
LLW													
On-Site Disp.	M3												
LLW													
Comm. Disp.	M3	0.00	0.00	550.00	1,095.00	1,107.00	1,015.00	1,016.00	4,820.50	0.00			
LLW													
TBD Disp.	M3				559.00	1,118.00	1,118.00	1,115.00	2,959.00				
Rem. Waste													
Disposed	M3						0.00						
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total			
MLLW													
Treatment	M3									0.00			
MLLW													
Storage	M3	0.00	11.00	0.00	11.00	0.00	11.00	0.00					
MLLW													
On-Site Disp.	M3									153.00			
MLLW													
Comm. Disp.	M3	295.00	294.00	316.00	294.00	316.00	294.00	316.00		14,508.50			
MLLW													
Ship to DOE Disp.	M3									30.00			

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Oak Ridge

Site Summary Level: Portsmouth Gaseous Diffusion Plant

Project OR-653 / Portsmouth Waste Management

Report Number: GEN-01b

Print Date: 3/9/2000

HQ ID: 0152

Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
MLLW										
TBD Disp.	M3	110.00	110.00	110.00	110.00	110.00	110.00	110.00		2,773.00
LLW										
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
LLW										
On-Site Disp.	M3									0.00
LLW										
Comm. Disp.	M3									10,184.50
LLW										
TBD Disp.	M3									6,869.00
Rem. Waste										
Disposed	M3									0.00

## Technology Needs

Site Need Code: ORWM-17a

Site Need Name: Characterization of Heterogeneous Waste

Focus Area Work Package ID: MW-01

Focus Area Work Package: Nondestructive Characterization for Treatment, Transportation, and Disposal of MLL and MTRU Waste.

Focus Area: MWFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

Characterization of Remote - Handled Waste Drums using Multi Detector Analysis System  
Nondestructive Waste Assay Using Gamma-Ray Active and Passive Computed Tomography

### Cost Savings (in thousands of dollars)

0  
0

### Range of Estimate

Dataset Name: FY 1999 Planning Data

Date of Dataset: 9/20/1999

## ***Project Baseline Summary Report***

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Portsmouth Gaseous Diffusion Plant**

Project **OR-653 / Portsmouth Waste Management**

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Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0152**